

QUICK IDENTIFIER

Common Name: (used on label and list)

2 - 4 - 1

Material Safety Data Sheet

May be used to comply with OSHA's Hazard Communication Standard, 29CFR1910.1200. Standard must be consulted for specific requirements.

SECTION 1 - GENERAL INFORMATIONName
ZECOL PRODUCTS COMPANYAddress
4635 WILLOW DRIVECity, State,
and ZIP
MEDINA, MN 55340Signature of Person
Responsible for Preparation (Optional)Emergency
Telephone No. (CHEM-TEL)
1-800-255-3924Other
Information
Calls. (763) 478-3436Date
Prepared JAN 1, 2002 (REV)**H**
HEALTH**F**
FLAMMABILITY**R**
REACTIVITYStyle NC-LS03R
PERSONAL
PROTECTION**2****4****1****SECTION 2 - HAZARDOUS INGREDIENTS/IDENTITY**

| Hazardous Component(s) (chemical & common name(s)) | OSHA PEL | ACGIH TLV | CAS NO. |
|--|-------------|--------------|------------|
| Heptane | 400 | 400 | 142-82-5 |
| Diethyl Ether | 400 | 400 | 60-29-7 |
| Carbon Dioxide | 5,000 | 5,000 | 124-38-9 |
| Upper Cylinder Lubricant | Not Estab. | Not. Estab. | Unknown |

SECTION 3 - PHYSICAL & CHEMICAL CHARACTERISTICS

| | | | |
|--------------------------|----------------------------|--|--------------|
| Boiling Point | 95° F. (Ether) | Specific Gravity (H ₂ O=1) | .713 |
| Vapor Density (Air=1) | 2.55 (Ether) | Vapor Pressure (mm Hg) | 537 (Ether) |
| Solubility in Water | Slight | Evaporation Rate (N-Butyl Acetate=1) | 37.5 (Ether) |
| Appearance and Odor | Clear Aerosol, Ether Smell | | |

SECTION 4 - FIRE & EXPLOSION DATA

| | | | | | | | | |
|---------------------------------|--|--------------------|-------------------------------------|-------------------------------------|-----------|------|-----------|----|
| Flash Point | 49° F. | Method Used | TCC | Flammable Limits in Air % by Volume | LEL Lower | 1.85 | UEL Upper | 48 |
| Auto-Ignition Temperature | NA | Extinguisher Media | Foam, dry chemical, CO ₂ | | | | | |
| Special Fire Fighting Procedure | Handle as extremely flammable liquid. Use water to cool containers exposed to heat. Use air-supplied breathing equipment for enclosed areas. | | | | | | | |

Unusual Fire and
Explosion Hazards Contents under pressure.

The information contained herein is based on current knowledge and experience; no responsibility is accepted that the information is sufficient or correct in all cases. Users should consider these data only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use and disposal of these materials and the safety and health of employees and customers and the protection of the environment.

SECTION 5 - PHYSICAL HAZARDS (REACTIVITY DATA) STARTING FLUID, AEROSOL (cont.)

Stability ☐ Unstable ☒ Stable Conditions to Avoid Avoid oxidizers. Keep away from heat, sparks, or open flame. Do not store above 120° F.

Incompatibility (Materials to Avoid) None

Hazardous Decomposition Products Carbon monoxide, carbon dioxide may be formed during combustion.

Hazardous Polymerization ☐ May Occur ☒ Will Not Occur Conditions to Avoid

SECTION 6 - HEALTH HAZARDS

1. Acute Eye, skin, & respiratory irritant 2. Chronic Repeated or prolonged overexposure may cause permanent brain damage and nervous system damage.

Signs and Symptoms of Exposure Irritated eyes or skin, headache, dizziness, nausea, and loss of consciousness.

Medical Conditions Generally Aggravated by Exposure NA

Chemical Listed as Carcinogen or Potential Carcinogen

National Toxicology Program Yes ☐ No ☒

I.A.R.C. Monographs Yes ☐ No ☒

OSHA Yes ☐ No ☒

Emergency and First Aid Procedures

ROUTES OF ENTRY

1. Inhalation Remove to fresh air. If breathing has stopped, give artificial respiration.
2. Eyes Flush with water for 15 minutes. If irritation persists, call a physician.
3. Skin Remove contaminated clothing and wash with soap and water.
4. Ingestion Do NOT induce vomiting. Call a physician immediately.

SECTION 7 - SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES

Precautions to be Taken in Handling and Storage Extremely flammable. Store and use away from all heat and ignition sources. Use adequate ventilation.

Other Precautions Keep out of reach of children. Contents under pressure. Do not store above 120° F. Do not puncture or incinerate.

Steps to be Taken in Case Material is Released or Spilled Eliminate sources of heat or ignition. Ventilate area. Apply absorbent material to spill area.

Waste Disposal Methods (Consult federal, state, and local regulations) Dispose of absorbing material or defective containers at an RCRA-approved TS & D facility according to local, state, and federal regulations.

SECTION 8 - SPECIAL PROTECTION INFORMATION/CONTROL MEASURES

Respiratory Protection (Specify Type) Use NIOSH approved organic vapor respirator if ventilation is inadequate.

Ventilation Local exhaust should be adequate; use general (mechanical) exhaust if required.

Protective Gloves Neoprene

Other Protective Clothing or Equipment Chemical goggles or safety glasses.

Work/Hygienic Practices Keep away from eyes, skin, and clothing. Do not smoke while using this product.